

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

- _____ 1. A light source driving method ~~of for~~ a projector ~~for projecting that projects~~ an image, ~~wherein control of~~ comprising:
- _____ ~~controlling a driving waveform for supplying to supply~~ electric power to a light source ~~and control for~~;
- _____ ~~controlling receiving said the~~ projected image and obtaining image data to adjust ~~said the~~ projected image ~~are synchronized~~; and
- _____ ~~synchronizing the controlling steps.~~
- _____ 2. The light source driving method of the projector according to claim 1, ~~wherein~~
- _____ ~~the light source driving method comprises a synchronous signal generating process for generating a signal as an operation reference, and~~
- _____ ~~the projector including a light source driving section for supplying the electric power for operating the light source, and an image obtaining section for receiving said the~~ projected image and obtaining the image data to adjust ~~said the~~ projected image ~~are operated in synchronization with said signal generated in said synchronous signal generating process~~;
- _____ ~~the method further including generating, via a synchronous signal generating process, a signal as an operation reference, and operating the light source driving section and the image obtaining section in synchronization with the signal generated in the synchronous signal generating process.~~
- _____ 3. The light source driving method of the projector according to claim 1 ~~or 2~~, ~~wherein~~ the method further including:

obtaining, with the ~~said~~-image obtaining section, ~~obtains said~~the image data in a period of the same driving waveform in synchronization with the control of the driving waveform for supplying the electric power to ~~said~~the light source, and ~~said~~changing, with the light source driving section, ~~changes~~-an electric current while lighting ~~said~~the light source after ~~said~~the image obtaining section obtains ~~said~~the image data.

4. A projector for projecting an image, ~~wherein~~comprising:

~~a controller that synchronizes control of a driving waveform for supplying electric power to a light source and with control for of receiving said~~the projected image and obtaining image data to adjust ~~said~~the projected image~~are synchronized~~.

5. The projector according to claim 4, ~~wherein~~

~~the projector comprises~~further including:

~~the a~~ light source ~~for emitting~~that emits light;

~~a light source driving section for supplying~~that supplies the electric power ~~for operating~~to operate the light source;

~~an image obtaining section for receiving said~~that receives the projected image and ~~obtaining~~obtains the image data to adjust ~~said~~the projected image; and

~~a synchronous signal generating section for generating~~that generates a signal as an operation reference; and

~~said, the~~ synchronous signal generating section ~~generates~~generating a first operation signal ~~for determining~~to determine operation timing of an electric current output of ~~said~~the light source driving section, and a second operation signal ~~for determining~~to determine operation timing for receiving ~~said~~the projected image and obtaining the image data by ~~said~~the image obtaining section, ~~and said~~;

the light source driving section and ~~said~~ the image obtaining section ~~are being~~
synchronously operated.

6. The projector according to claim 4 ~~or 5, wherein~~

~~said~~ the image obtaining section ~~obtains said~~ obtaining the image data in a
period of the same driving waveform in synchronization with the control of the

driving waveform for supplying the electric power to ~~said~~ the light source, and

~~said~~ the light source driving section ~~changes~~ changing an electric current while
lighting ~~said~~ the light source after ~~said~~ the image obtaining section obtains ~~said~~ the
image data.